



DEPARTMENT OF THE NAVY
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MCO 1543.7
C2I
13 Mar 92

MARINE CORPS ORDER 1543.7

From: Commandant of the Marine Corps
To: Distribution List

Subj: MATERIEL FIELDING PLAN (MFP) FOR THE DRY SUIT SET,
DIVING

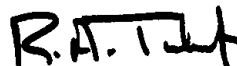
Encl: (1) Materiel Fielding Plan for the Dry Suit Set,
Diving

1. Purpose. To provide information and instructions concerning the fielding of the Diving Dry Suit Set to the Fleet Marine Force (FMF).

2. Information. The Diving Dry Suit Set will allow Marine Corps divers to perform open and closed circuit diving in cold waters up to 190 feet. The set includes an insulated divers dress, gloves, a pressure tank, and cuff rings. The diving dry suit set is available in three (3) different sizes; small, medium and large. The mix of sizes held by the owning commands will be dependent on the mix of personnel in the command.

3. Action. The commanders of each organizational element concerned shall ensure implementation of the provisions of this Order.

4. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.


R. A. TIEBOUT
By direction

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MATERIEL FIELDING PLAN
FOR THE DRY SUIT SET, DIVING

1. Introduction

a. Source of Requirement. Commanding General, Marine Corps Combat Development Command (CG, MCCDC) message 252000Z Jul 90 identified the Diving Dry Suit Set as an equipment requirement for the Special Operational Capable (SOC) units.

b. Points of Contact

<u>Name</u>	<u>Command/Telephone</u>
Maj. O'Hara	Project Officer Diving Equipment MARCORSYSCOM (C2IA) Quantico, VA 22134-5080 AV/DSN 278-2914 COMM: (703) 640-2914
GySgt R. Scriven	Assistant Project Officer Diving Equipment MARCORSYSCOM (C2IA) Quantico, VA 22134-5080 AV/DSN 278-2914 COMM: (703) 640-2914
Capt Thompson	ILS Officer Diving Equipment MARCORSYSCOM (C2IL) Quantico, VA 22134-5080 AV/DSN 278-2234 COMM: (703) 640-2234
Judy Mathis	Inventory Manager Diving Equipment MARCORLOGBASES (Code 835-2) Albany, GA 31704-5000 AV/DSN 567-6534 COMM: (912) 439-6534

c. Fielding Methodology

(1) General Fielding Plan. The Diving Dry Suit Set will be available to the units in the quantities as listed in appendix A. The Schedule of Events are listed in appendix B. There will not be an initial issue of the set.

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(2) Method of Fielding. Units listed in appendix A will requisition all components from listed source of supply or local procurement. There will not be an initial issue of Dry Suit Sets.

d. Replaced Systems/Equipment. This set will replace the Diving Dry Suit, Table of Authorized Material Control Number (TAMCN) C1085. All other dry suits should be disposed in accordance with MCO P4400.82 and Users Manual (UM) 4400-124.

2. System Description

a. Administrative Information

- (1) Nomenclature. Dry Suit Set, Diving
- (2) TAMCN. C1087IIF
- (3) Stores Account Code (SAC). 1
- (4) NAN's.

Small	4220-01-339-9470
Medium	4220-01-343-1696
Large	4220-01-339-9471
- (5) Unit of Issue (UI). Set
- (6) Unit Cost (UC). \$1,200 (estimate)
- (7) Support Cost. None
- (8) Equipment Density. Normal
- (9) Readiness Reporting. N/A
- (10) Equipment ID Number's.

Small	09530A
Medium	09529A
Large	09528A

b. Physical Characteristics

	<u>Operational Configuration</u>	<u>Storage/Shipping Configuration</u>
(1) <u>Length</u> .	19 in	19 in
(2) <u>Width</u> .	13 in	13 in
(3) <u>Height</u> .	17 in	17 in
(4) <u>Square</u> .	2 ft (2)	2 ft (2)
(5) <u>Cube</u> .	3 ft (3)	3 ft (3)

- (6) Weight. 35 lbs 35 lbs
- (7) Stowage. 3 ft (3) 3 ft (3)
- (8) Power Requirements. N/A

c. Operational Characteristics. The Diving Dry Suit Set allows Marine Corps Divers to perform open or closed circuit diving operations in cold waters up to 190 feet. The suit can be converted from open to closed circuit diving by relocating the exhaust valve. For closed circuit diving operations the inflation valve will be moved from the chest to the thigh. During closed circuit diving operation the "pony bottle" is required to inflate the diving suit. During open circuit diving operations, the diver can either inflate the dry suit with the air hose or the pony bottle. See figure 1-1 for a display of the items in the Diving Dry Suit Set. The following key identifies the components:

<u>Item Number</u>	<u>Item Name</u>
1	Divers Dress
1a	Bag
1b	Hood liner
1c	Inflator hose
1d	Repair Kit
2	Gloves, 5 finger with insert
3	Tank, Pressure, Dry Suit
4	Cuff Ring (inner/outer)

d. Associated/Related Systems/Equipment. TAMCN C4550, Diving Equipment Set; TAMCN K4953, Surface Swimmer Set, and TAMCN C4185, Underwater Breathing Apparatus can be used in conjunction with the Diving Dry Suit Set. TAMCN K4997, Tool Set, Diving Equipment can be used to assist in performing maintenance tasks on the set.

3. Logistics Support

a. Maintenance Support. All of the items in the Diving Dry Suit Set require first echelon maintenance by the using and owning units. The divers dress may require third echelon maintenance of repairs. Maintenance personnel will follow the maintenance actions as specified in the respective Maintenance Requirements Card (MRC), OPNAV 4790.4B, and local maintenance management standard operating procedures (SOP's). Maintenance will include repair to the divers dress and relocation of the exhaust valve from the left sleeve of the divers dress to the left leg. First and second echelon repairs to the divers dress include patching of small tears or replacement of the inner and outer cuff rings. Third echelon repairs consist of the movement of the exhaust valve, any disassembly/reassembly of the exhaust valve and repair of large tears to the divers dress which require the use of the Service Kit, Large.

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{1i MCOFE001.gif:DIVING DRY SUIT SET}

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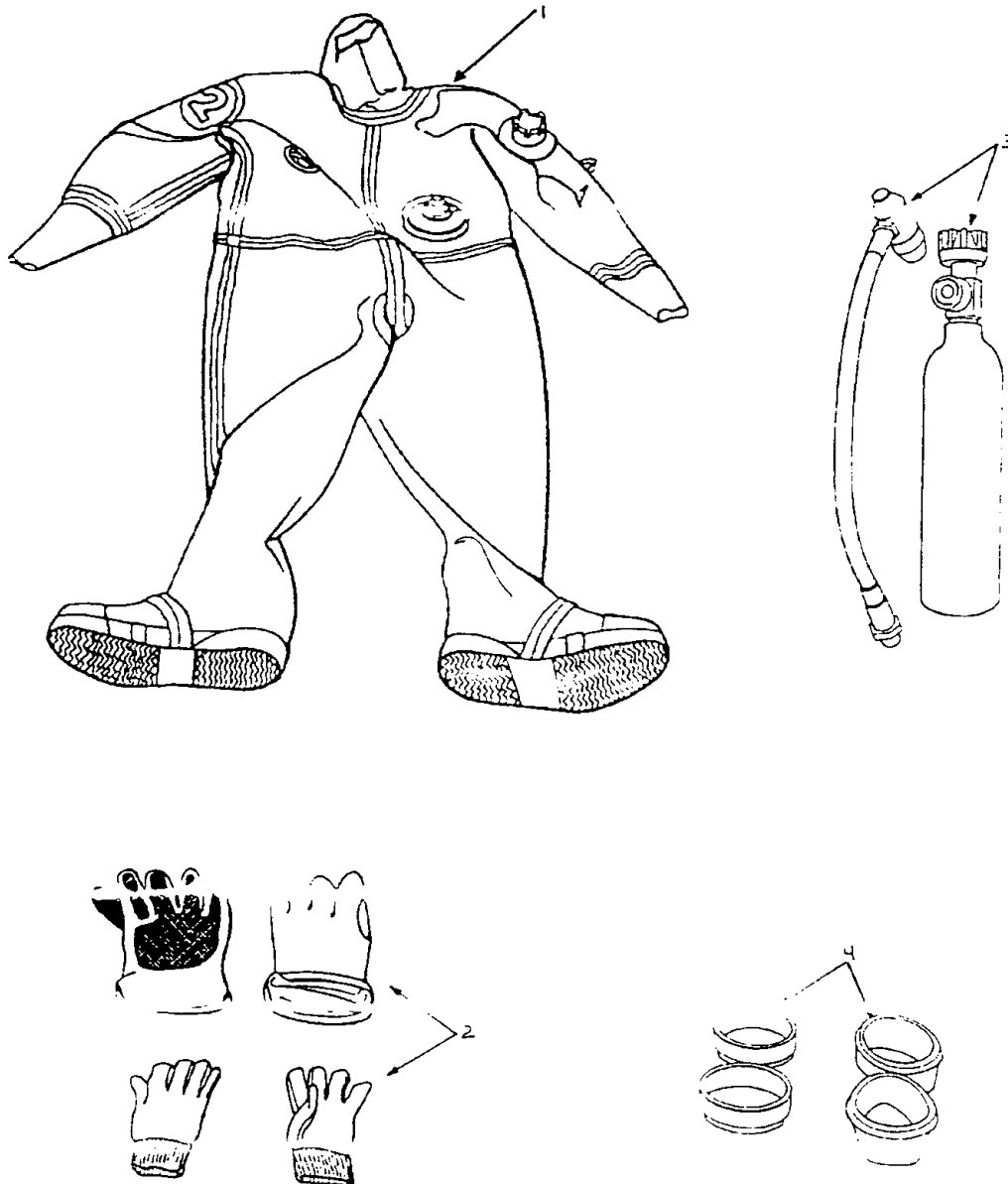


Figure 1-1. Diving Dry Suit Set

Enclosure (1)

(1) First Echelon Maintenance (Organizational Level). All using and owning units are required to perform the basic care, cleaning and inventory requirements on the items in the Diving Dry Suit Set. The tasks are to be performed by a qualified diver.

(2) Second Echelon Maintenance (Organizational Level). Second echelon maintenance performed on the set shall be performed by a qualified diver and will follow the procedures as shown in the respective maintenance manuals and MRC. The maintenance actions are limited to the repair of small tears to the divers dress and replacement of the cuff rings.

(3) Third Echelon (Intermediate Level). Intermediate level maintenance will be performed by qualified divers in the owning unit of the set. It is recommended that these personnel attend commercially available vendor training courses to assist in maintaining their level of knowledge in performing more extensive repairs to the items in the diving dry suit set. Third echelon maintenance is limited to actions necessary for repositioning and disassembly/assembly of the exhaust valves and to perform extensive repairs to the divers dress.

b. Contractor Support Requirements. None.

c. Manpower, Personnel, and Training

(1) Personnel Requirements. No impact on current authorizations is required. The current T/O strength will be used to operate and maintain the set.

(2) Training Requirements. It is appropriate that familiarization be provided by the using units, and the Amphibious Reconnaissance school and other service diving schools on the proper operation of the items in the set. Although a qualified diver is authorized to perform the maintenance on the set, it is recommended that additional training courses which are offered commercially be attended by the maintenance personnel.

(3) Training Support Items. None.

d. Supply Support

(1) Provisioning. Initial provisioning is not required for this set. Each of the items in the set will have a National Stock Number (NSN) assigned and be listed in the Stock List (SL) 3.

(2) Replenishment. Component replacements will be requisitioned from the Source of Supply or local procurement. COMMARCORLOGBASES, Albany will issue complete sets to new T/E allowances only. Since this set is a Stores Account Code (SAC) 1 item, the owning units are required to fund with their own Operations and Maintenance (O&M) funds for replenishing the set or the components.

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e. Support Equipment

(1) Special Tools. None.

(2) Common Tools. All tools needed to repair the items in the Diving Dry Suit Set are in the Tool Set, Diving Equipment (TAMCN K4997).

(3) Special Purpose Test Equipment (SPTE). None.

(4) General Purpose Test Equipment (GPTE). None.

(5) Test Program Sets (TPS). None.

(6) Other Support Equipment. None.

f. Technical Publications (TP). The Diving Dry Suit Set is supported by three SL-3's. Depending on the size of the diver, refer to SL-3-09530A, small; SL-309529A, medium; or SL-309528A, large; for component part requisitioning. Maintenance and repair procedures for the set are covered by the MRC's and in accordance with OPNAVINST 4790.4B, TM 4700-15/1 and local Standard Operating Procedures (SOP's). The operator and maintenance manual for the Diving Dry Suit is "Technical Manual Viking Diving Suits" (PCN 50000668900).

g. Computer Resources Support. None.

h. Facilities. No new, interim or special facilities are required to support the Diving Dry Suit Set.

i. Packaging, Handling, Storage, and Transportation

(1) Packaging. There are no special packaging requirements for the Diving Dry Suit Set.

(2) Handling. There are no special handling procedures for the set. The compressed gas cylinders need to be handled with caution in order to prevent accidental rupture at the manifold.

(3) Storage. The contents of the set should be completely free of all moisture prior to storage to prevent mildew, dry rot, rust or mold from developing.

(4) Transportability. The compressed gas cylinders need to be properly marked in order to meet any air or shipboard embarkation procedures prior to transport.

j. Warranties. There are no warranties for the items in the set marked with a Military Specification (MILSPEC) number. Commercial warranties will be overpacked for Non MILSPEC items in the set.

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4. Actions Required To Place Equipment In Service

a. Commanding Generals, FMFLant and FMFPac. Authorize the commands to use the diving dry suit set once all the requirements of this Order and MCO P4105.3 have been met.

b. Gaining Commands

(1) Material Defects Reporting. If any of the items in the set arrive opened or damaged, a SF 368 Quality Deficiency Report (QDR) should be submitted to COMMARCORLOGBASES, (Code 808-1), Albany, GA. If any of the items become deficient from other than normal use, a QDR should be submitted. A QDR, with block 19 marked "yes", should also be completed if a deficiency occurs during a warranty period. The starting time of any warranties will be recorded by the owning unit upon delivery. Understanding the terms and conditions of the commercial warranties is the owning unit's responsibility. Any questions on the warranty should be addressed to COMMARCORLOGBASES, Albany, GA (Code 835-2).

(2) Retrograde of Existing Equipment. Owning units should dispose of any other diving dry suits and replenish Table of Equipment (T/E) deficiencies with C1087.

(3) Placing the Equipment Into Service. Request authorization from the either the Commanding General, FMFLant or FMFPac to place the diving dry suit set into service once all of the requirements of this Order and MCO P4105.3 have been met.

b. COMMARCORLOGBASES, Albany, GA. Assist in the Principal End Item (PEI) transfer of the Diving Dry Suit Set.

c. Amphibious Reconnaissance School/Course (ARS/C). Incorporate the use of the Diving Dry Suite Set in lesson plans and classroom instruction as appropriate.

ENCLOSURE (1)

LIST OF ALLOWANCES

ACTIVE FORCES

T/E No.	UNIT TITLE	No. UNITS	UNIT ALLOW
5980	Amphibious, Recon School, LFTCLant	1	5
5981	Amphibious, Recon Course, LFTCPac	1	5
N1411	H&S Co, Recon Bn, 1st MarDiv	1	20
N1421	H&S Co, Recon Bn, 2d MarDiv	1	20
N1431	H&S Co, Recon Bn, 3d MarDiv	1	10
B1432	A Co (REIN), Recon Bn, 1st MEB	1	10
N4618	Force Recon Co, 1st SRI Group	1	36
N4718	Force Recon Co, 2d SRI Group	1	10

RESERVE FORCES

T/E No.	UNIT TITLE	No. UNITS	UNIT ALLOW
N1441	H&S Co, Recon Bn, 4th MarDiv	1	8
		Total	124

Appendix A to
ENCLOSURE (1)

SCHEDULE OF EVENTS

<u>Event</u>	<u>Date</u>
Begin Fielding	1st Qtr 92
Initiating Service Date	2d Qtr 92
Initial Operational Capability (IOC)	2d Qtr 92
Full Operational Capability (FOC)	3d Qtr 92

Appendix B to
ENCLOSURE (1)

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